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- 1 [Efficient dynamic dispatch without virtual function tables: the SmallEiffel compiler](#)  
 Olivier Zendra, Dominique Colnet, Suzanne Collin  
 October 1997 **ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 32 Issue 10

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SmallEiffel is an Eiffel compiler which uses a fast simple type inference mechanism to remove most late binding calls, replacing them by static bindings. Starting from the system's entry point, it compiles only statically living code, which saves compiling and then removing dead code. As the whole system is analyzed at compile time, multiple inheritance and genericity do not cause any overhead. SmallEiffel features a coding scheme which eliminates the need for virtual function tables. Dynamic dis ...

- 2 [The Jalapeño dynamic optimizing compiler for Java](#)  
 Michael G. Burke, Jong-Deok Choi, Stephen Fink, David Grove, Michael Hind, Vivek Sarkar, Mauricio J. Serrano, V. C. Sreedhar, Harini Srinivasan, John Whaley  
 June 1999 **Proceedings of the ACM 1999 conference on Java Grande**

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- 3 [Implementing signatures for C++](#)  
 Gerald Baumgartner, Vincent F. Russo  
 January 1997 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19 Issue 1

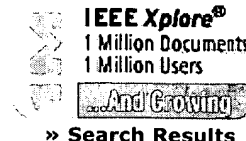
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We outline the design and detail the implementation of a language extension for abstracting types and for decoupling subtyping and inheritance in C++. This extension gives the user more of the flexibility of dynamic typing while retaining the efficiency and security of static typing. After a brief discussion of syntax and semantics of this language extension and examples of its use, we present and analyze three different implementation techniques: a preprocessor to a C++ compiler, an implem ...

**Keywords:** C++, dispatch tables, inheritance, object interfaces, polymorphism, subtyping

- 4 [The direct cost of virtual function calls in C++](#)

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Relevance scale ☐ ☐ ☐ ☐ ☐1 [An enabling optimization for C++ virtual functions](#)

Bradley M. Kuhn, David W. Binkley

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**Full text available: pdf(655.81 KB) Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** dynamic finding, optimization, virtual functions2 [Fast static analysis of C++ virtual function calls](#)

David F. Bacon, Peter F. Sweeney

October 1996 **ACM SIGPLAN Notices , Proceedings of the 11th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 31 Issue 10Full text available: pdf(2.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Virtual functions make code easier for programmers to reuse but also make it harder for compilers to analyze. We investigate the ability of three static analysis algorithms to improve C++ programs by resolving virtual function calls, thereby reducing compiled code size and reducing program complexity so as to improve both human and automated program understanding and analysis. In measurements of seven programs of significant size (5000 to 20000 lines of code each) we found that on average the mo ...

3 [Programming language optimizations for modular router configurations](#)

Eddie Kohler, Robert Morris, Benjie Chen

October 2002 **Tenth international conference on architectural support for programming languages and operating systems on Proceedings of the 10th international conference on architectural support for programming languages and operating systems (ASPLOS-X)**, Volume 36 , 30 , 37 Issue 5 , 5 , 10Full text available: pdf(1.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Networking systems such as Ensemble, the x-kernel, Scout, and Click achieve flexibility by building routers and other packet processors from modular components. Unfortunately, component designs are often slower than purpose-built code, and routers in particular have stringent efficiency requirements. This paper addresses the efficiency problems of one component-based router, Click, through optimization tools inspired in part by compiler optimization passes. This pragmatic approach can res ...

4 [Vortex: an optimizing compiler for object-oriented languages](#)